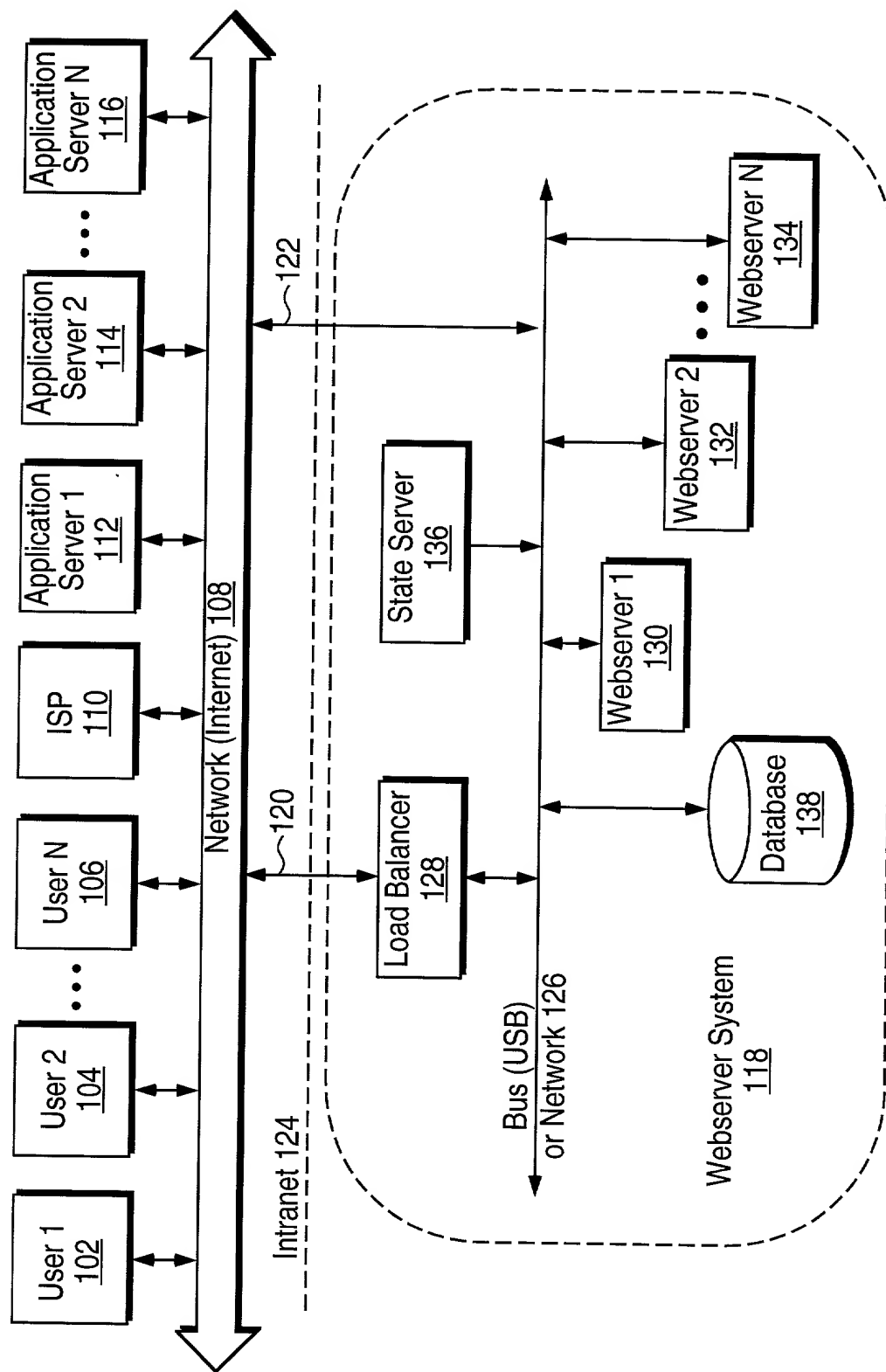


FIG. 1



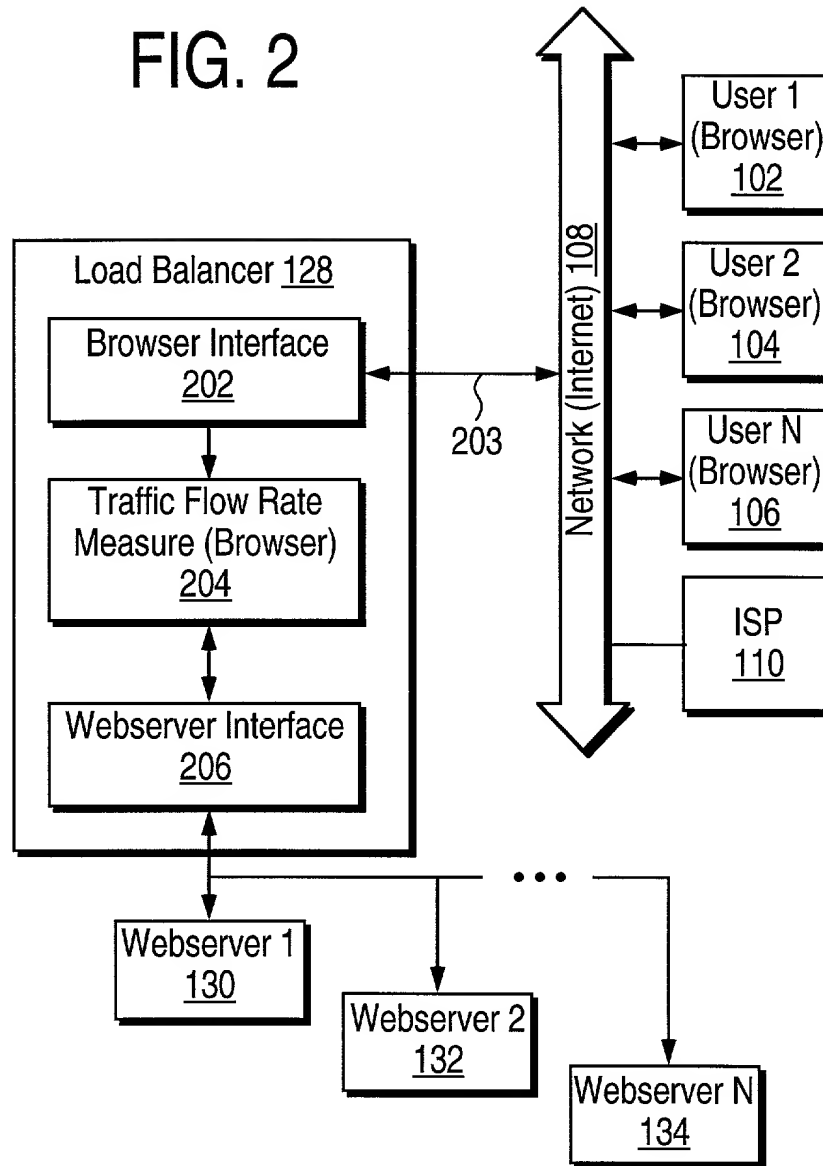


FIG. 3

FIG. 3

FIG. 4

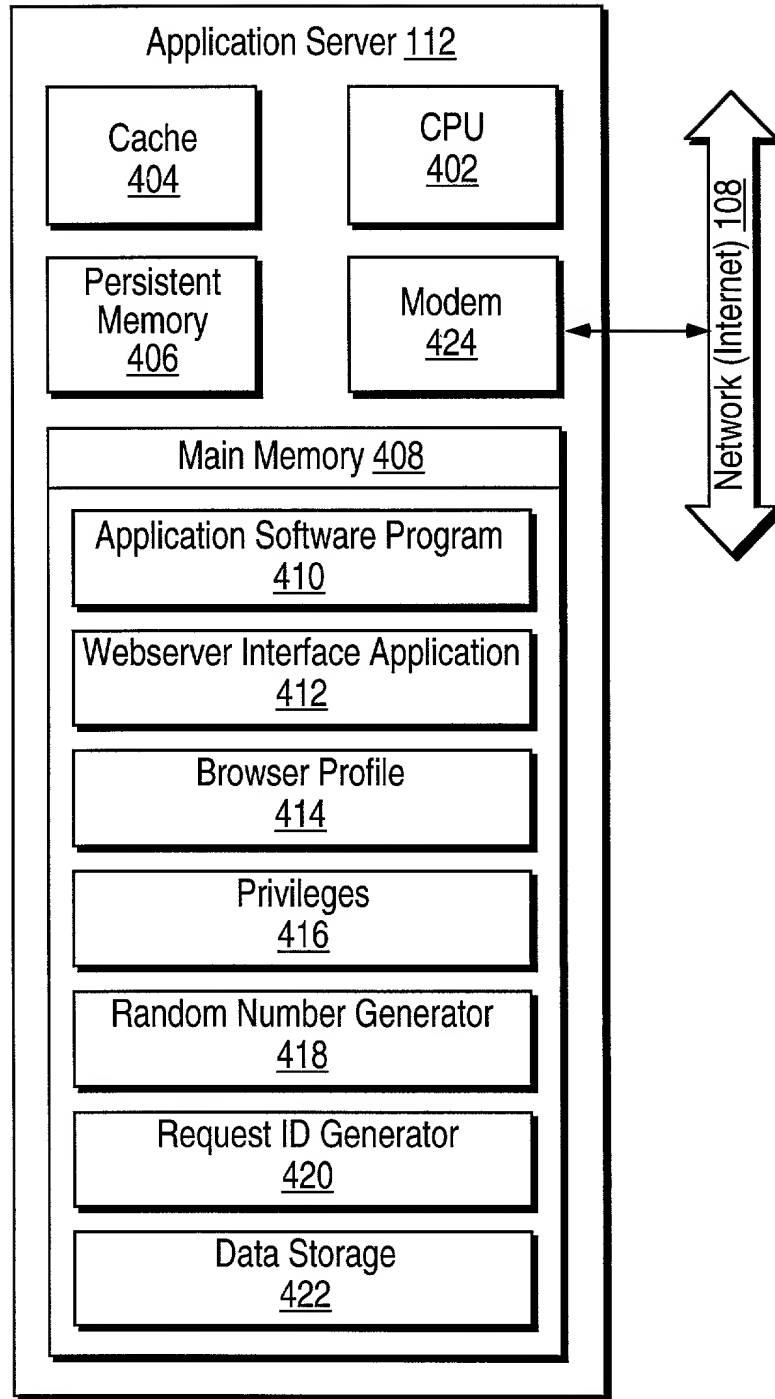
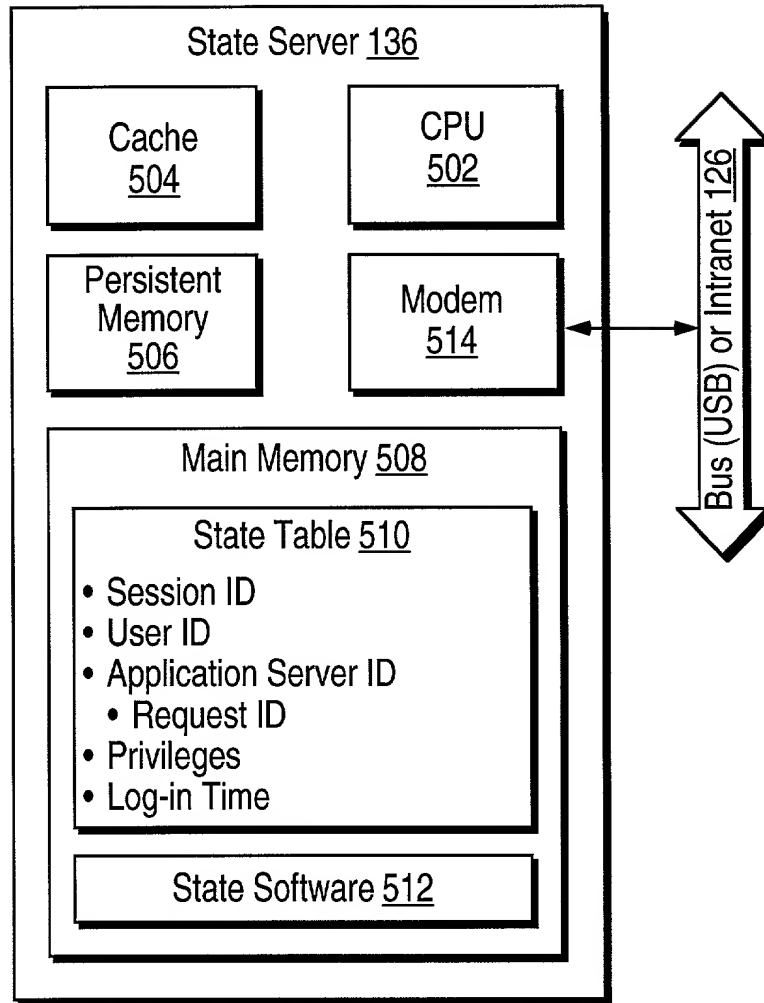


FIG. 5



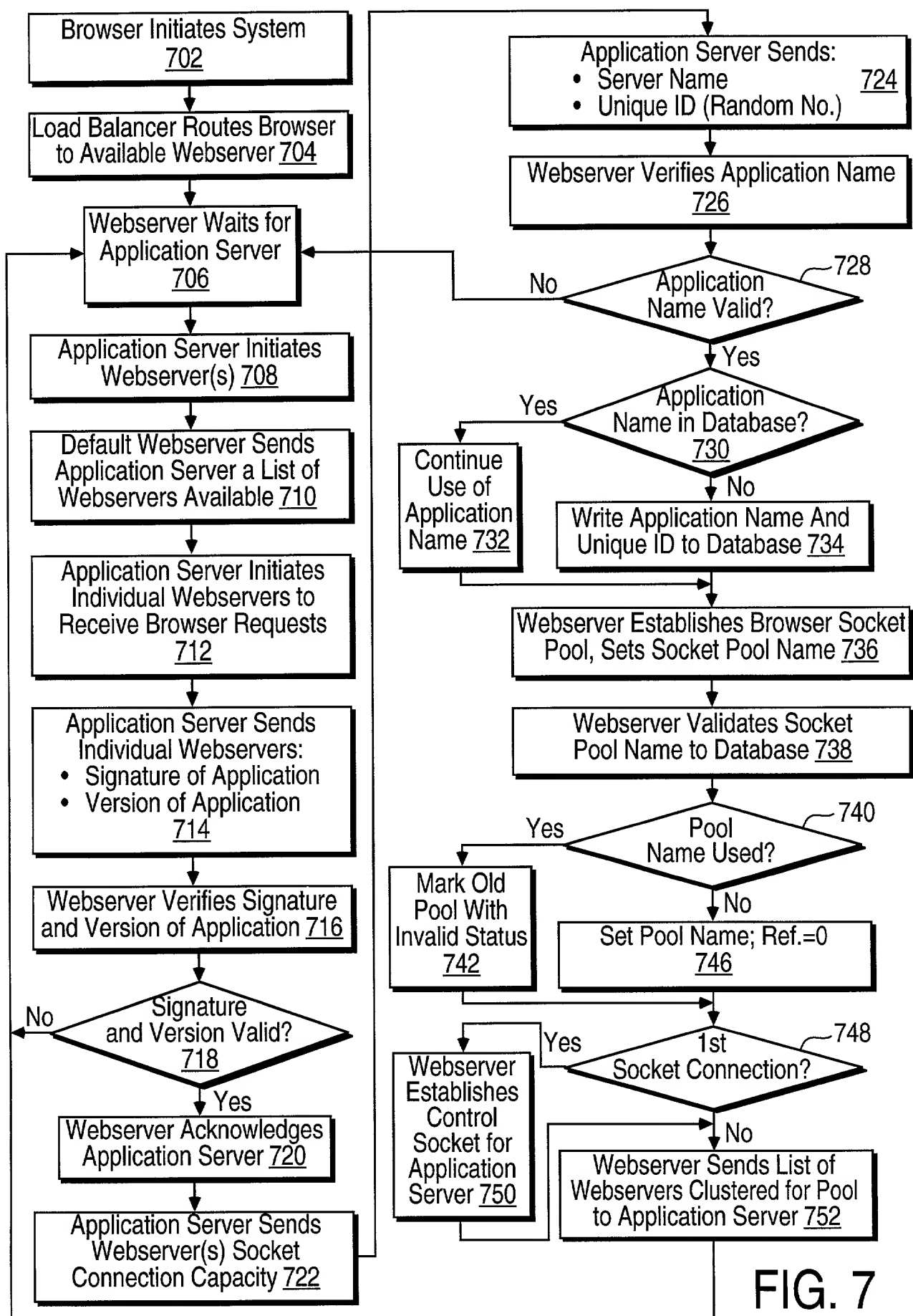


FIG. 7

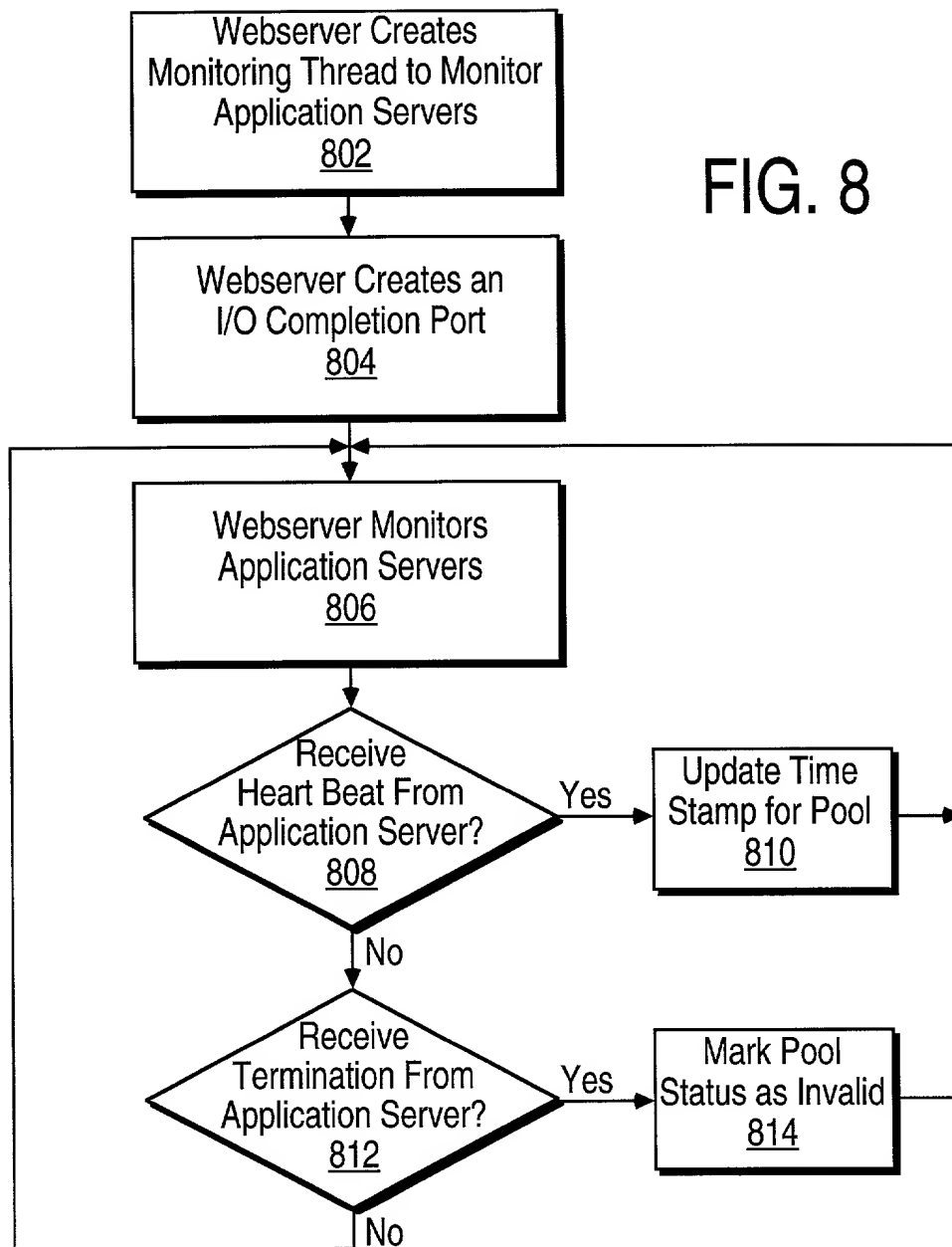


FIG. 8

Physical Characteristics		Chemical Analysis		Thermal Analysis		Mechanical Properties		Electrical Properties		Optical Properties		Biological Properties		Environmental Properties			
Parameter	Value	Parameter	Value	Parameter	Value	Parameter	Value	Parameter	Value	Parameter	Value	Parameter	Value	Parameter	Value		
Weight	10.5 g	Moisture	1.2%	Onset	150°C	Tensile	15 MPa	Resistivity	10 ¹² Ω·cm	Transmittance	85%	Biocompatibility	ISO 10993-5	Biodegradability	ISO 10993-11	Stability	10 years
Length	120 mm	Protein	0.5%	Max	250°C	Elongation	5%	Capacitance	10 ⁻⁸ F/cm	Absorbance	0.1	Cytotoxicity	ISO 10993-5	Leachables	ISO 10993-12	Flammability	UL-94 V-0
Width	10 mm	Carbohydrate	0.1%	Weight Loss	10%	Modulus	1.5 GPa	Dielectric	10 ¹⁵ Ω·cm	Refractive Index	1.5	Genotoxicity	ISO 10993-5	Residual Solvent	ISO 10993-12	Impact	10 J
Thickness	2 mm	Lipid	0.05%	Residue	5%	Hardness	100 MPa	Volume Resistivity	10 ¹⁶ Ω·cm	Dispersion	0.05	Mutagenicity	ISO 10993-5	Extractables	ISO 10993-12	Creep	10 ⁻⁴ mm/mm
Density	1.2 g/cm³	Amino Acid	0.01%	Char Yield	10%	Impact	10 J	Surface Resistivity	10 ¹⁴ Ω	Scattering	0.01	Immunogenicity	ISO 10993-5	Residual Monomer	ISO 10993-12	Relaxation	10 ⁻³ s
Surface Area	100 cm²	Nucleic Acid	0.005%	Smoke	10 L/min	Compression	10 MPa	Volume Change	10 ⁻⁶ cm³/cm³	Fluorescence	0.01	Antigenicity	ISO 10993-5	Residual Initiator	ISO 10993-12	Thermal Expansion	10 ⁻⁴ mm/mm/°C
Volume	100 cm³	Enzyme	0.001%	Gas	10 L/min	Shear	10 MPa	Weight Change	10 ⁻⁶ g/g	Photoluminescence	0.01	Antibody	ISO 10993-5	Residual Catalyst	ISO 10993-12	Thermal Contraction	10 ⁻⁴ mm/mm/°C
Mass	10.5 g	Cell Culture	0.0005%	Particle Size	10 μm	Flexure	10 MPa	Volume Loss	10 ⁻⁶ cm³/cm³	Raman	0.01	Anticancer	ISO 10993-5	Residual Additive	ISO 10993-12	Thermal Shrinkage	10 ⁻⁴ mm/mm/°C
Force	10 N	Gene Expression	0.0001%	Particle Shape	Spherical	Impact	10 J	Volume Gain	10 ⁻⁶ cm³/cm³	Infrared	0.01	Antiviral	ISO 10993-5	Residual Filler	ISO 10993-12	Thermal Swelling	10 ⁻⁴ mm/mm/°C
Energy	10 J	Protein Synthesis	0.00005%	Particle Distribution	10 μm	Compression	10 MPa	Volume Increase	10 ⁻⁶ cm³/cm³	Ultraviolet	0.01	Antibacterial	ISO 10993-5	Residual Pigment	ISO 10993-12	Thermal Degradation	10 ⁻⁴ mm/mm/°C
Power	10 W	Cell Viability	0.00001%	Particle Count	10 ⁶ /cm³	Shear	10 MPa	Volume Decrease	10 ⁻⁶ cm³/cm³	Visible	0.01	Antifungal	ISO 10993-5	Residual Dye	ISO 10993-12	Thermal Oxidation	10 ⁻⁴ mm/mm/°C
Heat	10 J	Gene Activity	0.000005%	Particle Size Distribution	10 μm	Flexure	10 MPa	Volume Reduction	10 ⁻⁶ cm³/cm³	Near-Infrared	0.01	Antiparasitic	ISO 10993-5	Residual Resin	ISO 10993-12	Thermal Reduction	10 ⁻⁴ mm/mm/°C
Cooling	10 J	Protein Activity	0.000001%	Particle Size Range	10 μm	Impact	10 J	Volume Stabilization	10 ⁻⁶ cm³/cm³	Far-Infrared	0.01	Anticancer	ISO 10993-5	Residual Solvent	ISO 10993-12	Thermal Increase	10 ⁻⁴ mm/mm/°C
Freezing	10 J	Cell Activity	0.0000005%	Particle Size Spread	10 μm	Compression	10 MPa	Volume Fluctuation	10 ⁻⁶ cm³/cm³	Terahertz	0.01	Antiviral	ISO 10993-5	Residual Additive	ISO 10993-12	Thermal Decrease	10 ⁻⁴ mm/mm/°C
Thawing	10 J	Gene Activity	0.0000001%	Particle Size Variability	10 μm	Shear	10 MPa	Volume Oscillation	10 ⁻⁶ cm³/cm³	Radio	0.01	Antibacterial	ISO 10993-5	Residual Filler	ISO 10993-12	Thermal Fluctuation	10 ⁻⁴ mm/mm/°C
Boiling	10 J	Protein Activity	0.00000005%	Particle Size Consistency	10 μm	Flexure	10 MPa	Volume Drift	10 ⁻⁶ cm³/cm³	Gamma	0.01	Antifungal	ISO 10993-5	Residual Pigment	ISO 10993-12	Thermal Oscillation	10 ⁻⁴ mm/mm/°C
Freezing	10 J	Cell Activity	0.00000001%	Particle Size Uniformity	10 μm	Impact	10 J	Volume Drift	10 ⁻⁶ cm³/cm³	X-ray	0.01	Antiparasitic	ISO 10993-5	Residual Resin	ISO 10993-12	Thermal Oscillation	10 ⁻⁴ mm/mm/°C
Thawing	10 J	Gene Activity	0.000000005%	Particle Size Homogeneity	10 μm	Compression	10 MPa	Volume Drift	10 ⁻⁶ cm³/cm³	Neutron	0.01	Anticancer	ISO 10993-5	Residual Solvent	ISO 10993-12	Thermal Oscillation	10 ⁻⁴ mm/mm/°C
Boiling	10 J	Protein Activity	0.000000001%	Particle Size Purity	10 μm	Shear	10 MPa	Volume Drift	10 ⁻⁶ cm³/cm³	Positron	0.01	Antiviral	ISO 10993-5	Residual Additive	ISO 10993-12	Thermal Oscillation	1

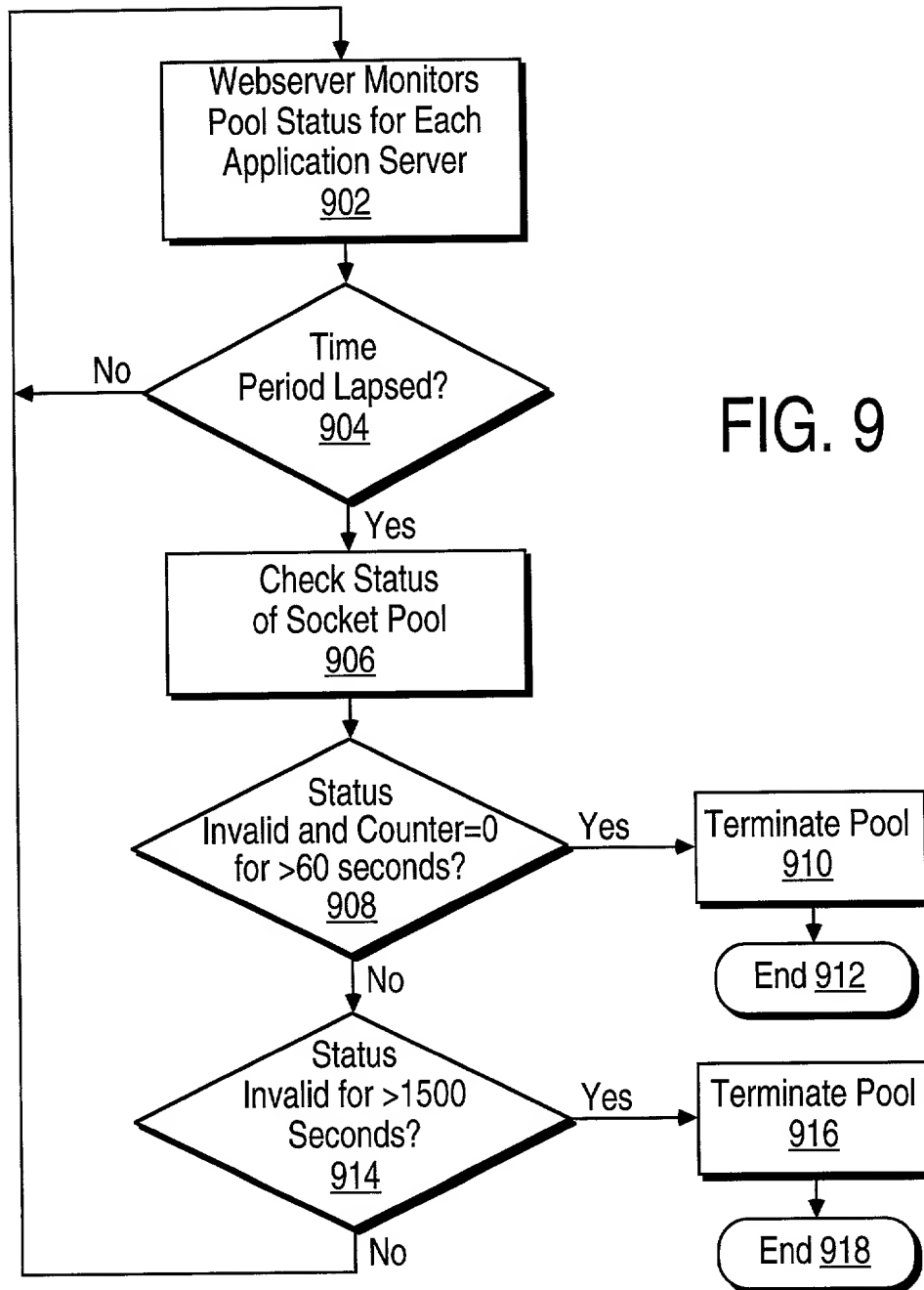
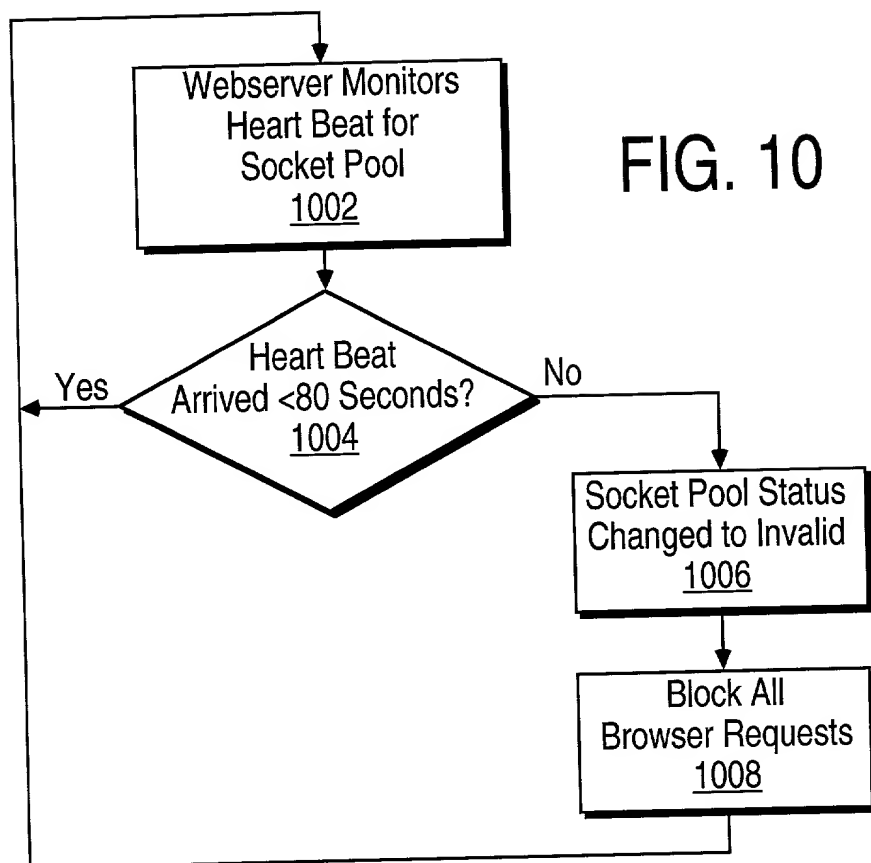


FIG. 9



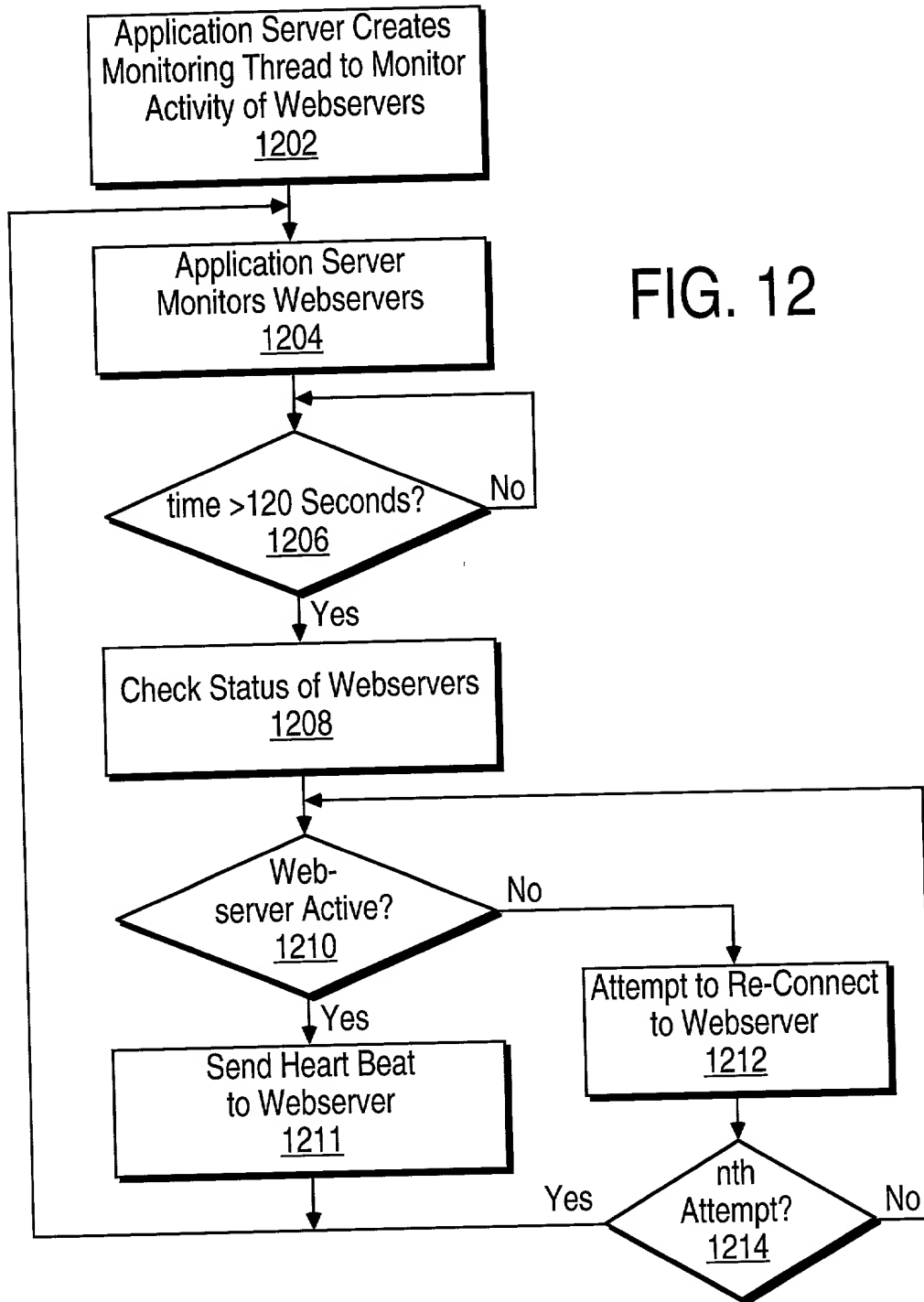


FIG. 12

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graph TD
    1302[Webserver Receives Browser Request For Application Server 1302] --> 1304[Webserver Creates Thread to State Server 1304]
    1304 --> 1306[State Server Monitors Webserver Dedicated to Browser For Application Server 1306]
    1306 --> 1308{Time > 120 Seconds? 1308}
    1308 -- No --> 1306
    1308 -- Yes --> 1310[Check Status of Webserver Serving Browser 1310]
    1310 --> 1213{Webserver Active? 1213}
    1213 -- No --> 1316[Attempt to Re-Connect Browser to Webserver 1316]
    1213 -- Yes --> 1314[Update State Server Browser File by Webserver 1314]
    1314 --> 1318{nth Attempt? 1318}
    1318 -- No --> 1316
    1318 -- Yes --> 1320[Application Server Re-Connects to New Webserver 1320]
    1320 --> 1322[New Webserver Downloads Browser Information From State Machine 1322]
    1322 --> 1306

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FIG. 13

FIG. 13